



Water Conservation Update

Resource Management Commission

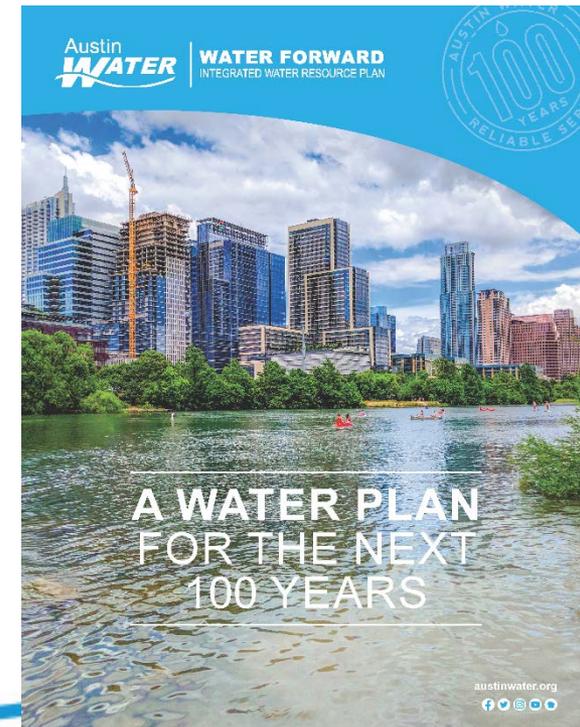
October 16, 2018

Mark Jordan

Environmental Conservation Program Manager

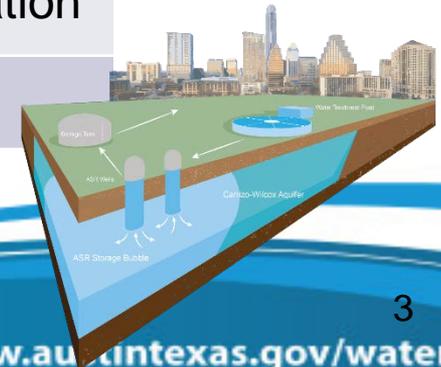
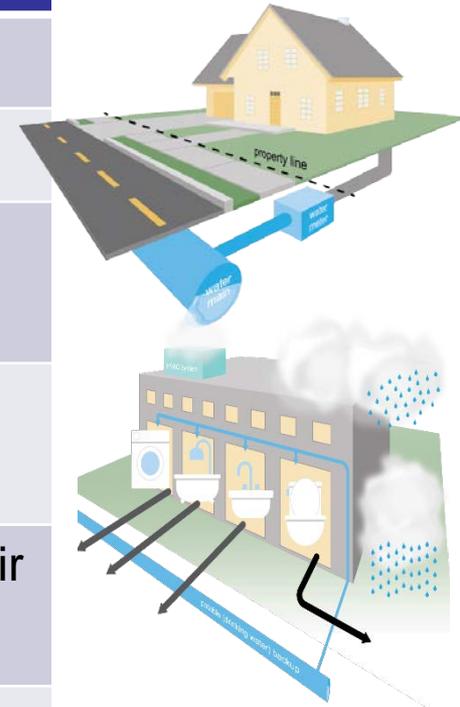
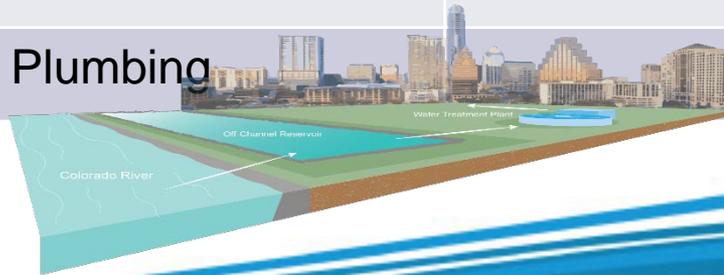
Water Forward Update

- July- Oct: Briefing of boards and commissions
- Oct 9: Recommended for city council approval by Austin Integrated Water Resources Planning Community Task Force
- Planned city council briefings:
 - Oct 30
 - Nov 13
- Nov 15: Council Action



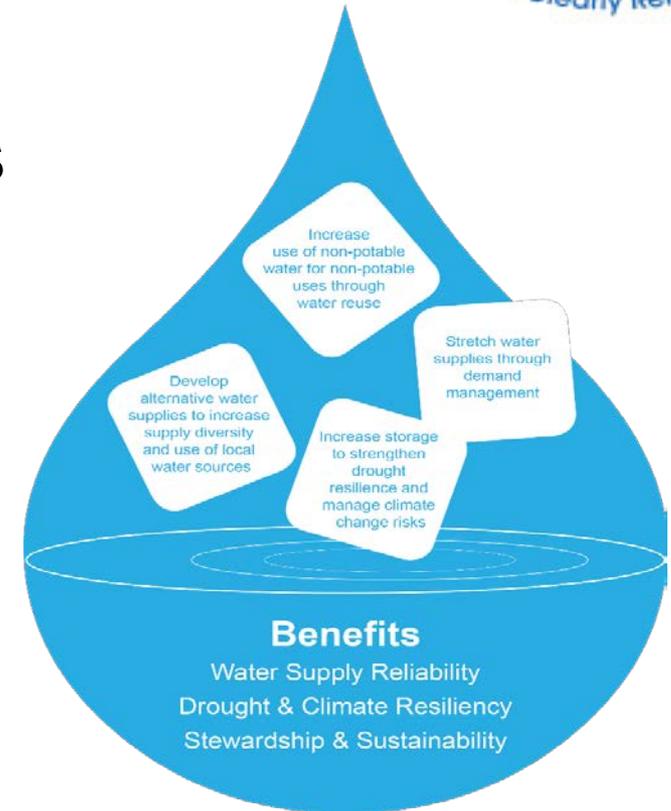
Recommended strategies

Demand Management	Water Supply
AMI	ASR
Water Loss Control	Reclaimed Water
Landscape Transformation	Stormwater
Irrigation Efficiency	Indirect Reuse
Commercial/Industrial/ Institutional	Off-channel Reservoir
Alternative Water	Brackish Desalination
Dual Plumbing	

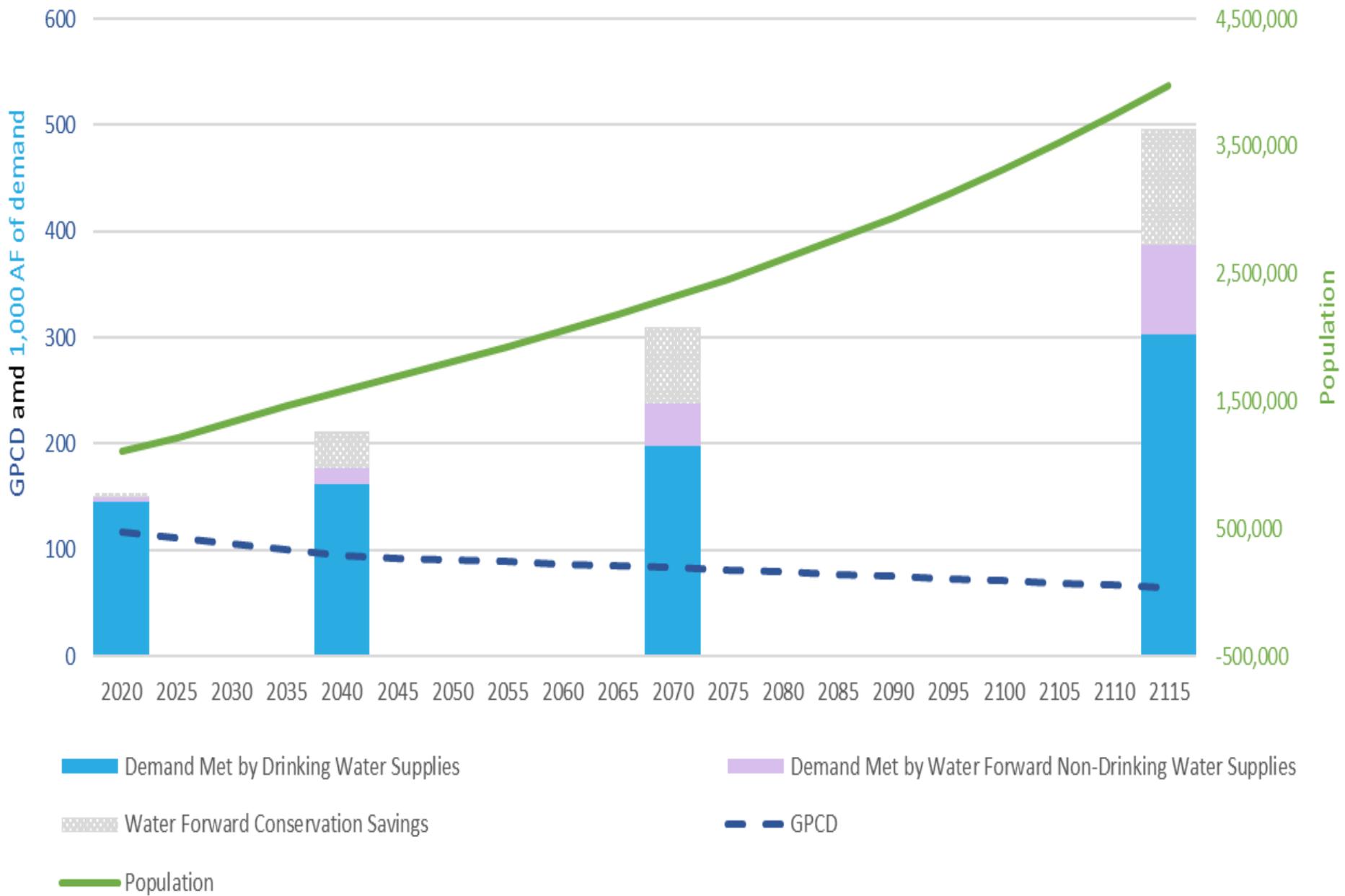


Benefits

- Extends existing water supplies
- Enhances climate resiliency
- Reduces/delays treatment and distribution costs
- Reduces/delays new or expanded infrastructure
- Further postpones LCRA contract payment



Population, Climate Change-Adjusted Demand, and Gallons per Person per Day (GPCD)



What we heard

- Generally very supportive:
 - Accounts for climate change
 - Plans for drought resiliency
 - Integrates water conservation into water resources planning
 - Gives preference to local sources of supply
 - Takes the long view
 - Applies adaptive management approach



What we heard (con't)

- Accelerate demand management strategies (e.g., dual plumbing, benchmarking)
- ASR feasibility pilot needs to address energy costs, regulatory uncertainty, stored water recovery and quality
- Lady Bird Lake water quality concerns from indirect reuse
- Off-channel reservoir costs and source water availability
- Include reallocation of COA steam electric water rights
- Would like to see more information about LCRA/COA water supply agreements and potential for additional supplies from Highland Lakes

Short-term implementation



DM Measure	FY20	FY22	FY23	FY25	FY28	FY32
Benchmarking Phase I	X					
Dual Plumbing Phase I		X				
Alt. Water Ord. Phase I		X				
Landscape Incentive		X				
Irrigation Incentive		X				
Alt. Water Incentive			X			
Landscape Ordinance				X		
Dual Plumbing Phase II					X	
Alt. Water Ord. Phase II					X	
Benchmarking Phase II						X
Next IRWP Update			X			

Implementation steps

- Establish cost benchmarks
- Refine strategy through stakeholder process
- Calculate estimated water savings/cost
- Perform cost/benefit analysis
- Apply cost benchmark to set rebate amounts
- Determine cost/benefit ratio
- Modify strategy/timeline if needed

Update water conservation plan and monthly reports

- 140 GPCD by 2020 goal will need to be updated
- New goals will be in 5 year update submitted to TWDB/TCEQ by May 1, 2019
- RMC monthly report will reflect new goals and metrics



WATER FORWARD
INTEGRATED WATER RESOURCE PLAN



More information about Water Forward:

austintexas.gov/aiwrpctf

austintexas.gov/waterforward

Final draft (version 5.0) of the Water Forward Report:

austintexas.gov/cityclerk/boards_commissions/meetings/132_1.htm

Possible City Council Discussion Dates:

October 30, November 13, November 15

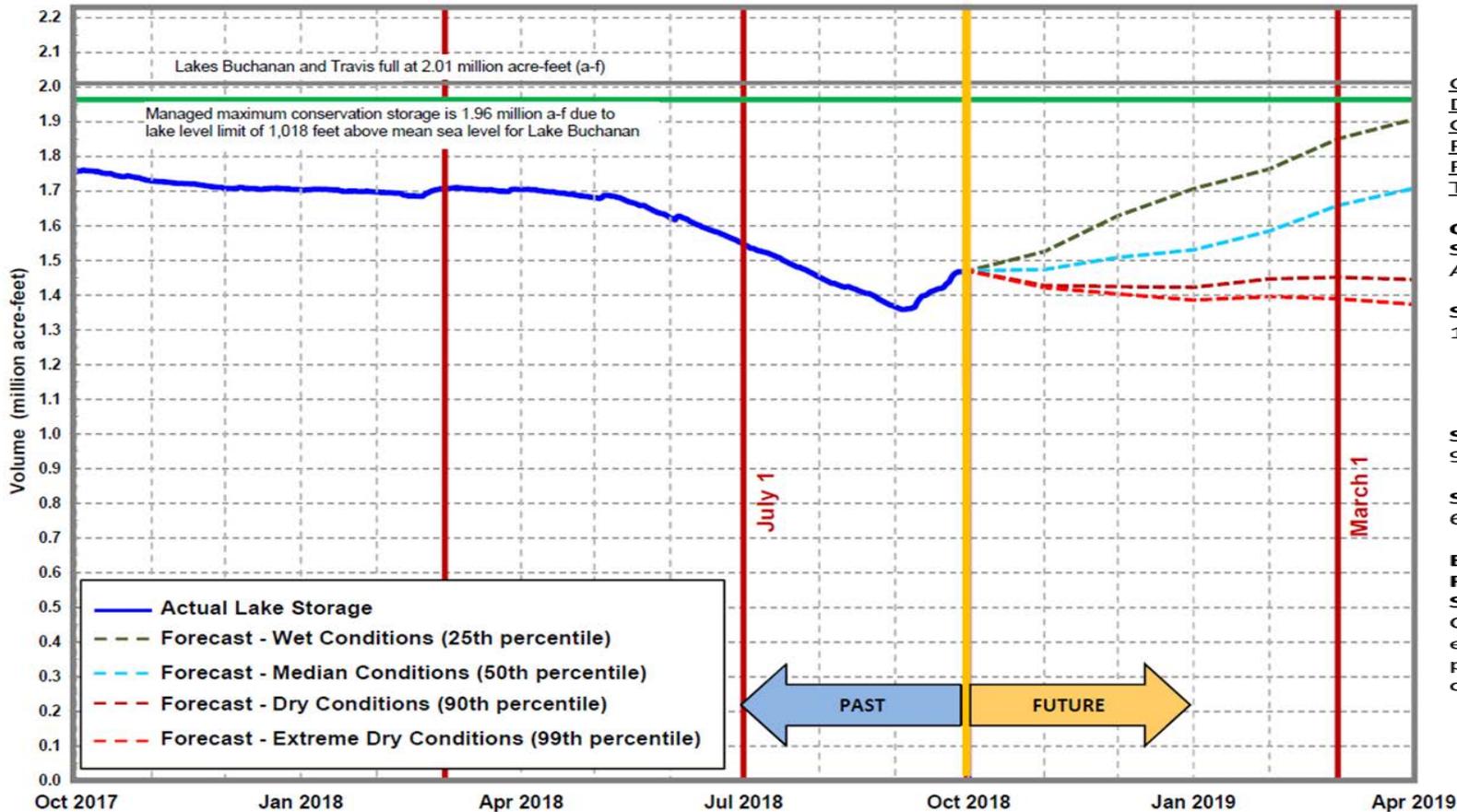
**A WATER PLAN
FOR THE NEXT
100 YEARS**

austinautwater.org



Stage 1 to be lifted

Lakes Buchanan and Travis
Total Combined Storage Projections



Note: One acre-foot equals 325,851 gallons.

Date: Oct. 1, 2018

City of Austin
Drought
Contingency
Plan Drought
Response Stage
Triggers:

**Conservation
Stage:**
Above 1.4 MAF

Stage I:
1.4 MAF

Stage II:
900,000 AF

Stage III:
600,000 AF

**Emergency
Response
Stage IV:**
Catastrophic
event including
prolonged
drought



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